



## Different Components of the Chemical Communication Mechanisms in Domestic Animals

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### Message from the Guest Editors

Chemical communication is of the utmost importance for domestic animals, being highly connected with several behavioral and physiological mechanisms and playing a crucial role in different aspects of their lives (social behavior, territory marking, ecological interactions). Chemical communication systems are all based on these key components: a transmitter of the message, a volatile chemosignal, and a receiver producing a biological response.

The multidisciplinary evolution of science and the simplification and development of analytical chemistry techniques allow opening research paths toward deciphering the chemical code. This Special Issue aims to focus on all the chemical communication components underlying domestic animal interactions, from the secretion to the perception and integration of the chemical signals, including their identification and the description of their functioning and mechanisms of action from peripheral to central nervous regions. Innovative research approaches (e.g. functional genomics and proteomics, reverse chemical ecology) and interdisciplinary studies on these topics (e.g., in vivo, in vitro, and in silico methods) are particularly welcomed.





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## Message from the Editor-in-Chief

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